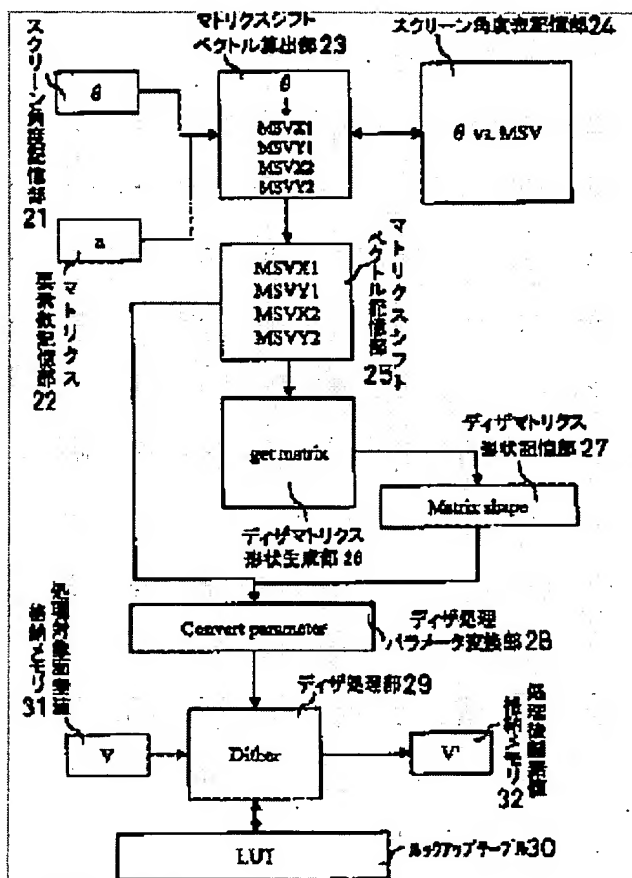# IMAGE PROCESSING APPARATUS, IMAGE FORMING APPARATUS, IMAGE PROCESSING METHOD, IMAGE PROCESSING PROGRAM AND RECORDING MEDIUM

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Classification:	
- international:	H04N1/405; B41J2/52; G06T5/00; H04N1/52
- european:	
Application number:	JP20020153001 20020527
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Abstract of JP2003348346

<P>PROBLEM TO BE SOLVED: To provide an image processing apparatus, an image forming apparatus provided with the image processing apparatus, an image processing method, an image processing program and a recording medium with the image processing program recorded thereon in which dither processing of high reproducibility having smooth gradations is performed when reproducing an image from circular, elliptical and diamond-shaped dots of screen angle 45 [deg.] by generating a suitable dither matrix shape corresponding to the screen angle.
<P>SOLUTION: A matrix shift vector calculating part 23 reads out a screen angle [theta] stored in a screen angle storage part 21 beforehand and a matrix element number (n) stored in a matrix element number storage part 22 beforehand and calculates two matrix shift vectors based upon an angle table stored in a screen angle table storage part 24. Based upon the calculated two matrix shift vectors, a dither matrix shape generating part 26 generates the dither matrix shape within a range of a parallelogram formed by the two matrix shift vectors. <P>COPYRIGHT: (C) 2004,JPO